2009 ANNUAL DRINKING WATER REPORT

The Midwest City Public Works Administration is pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the water quality and services we deliver to you every day.

Our goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your drinking water.

For More Information

Here are some helpful numbers if you have questions regarding your water quality, billing, service or if you have a water emergency.

Water Quality Questions: (405) 739-1397

Billing/Customer Service: (405) 739-1252

(405) 739-1254

Water Emergency: (405) 739-1397

After Hours (5pm - 8am): (405) 739-1383

Español: Este informe contiene información importante acerca de su aqua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

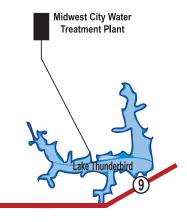
The City of Midwest City

Public Works Administration

Information on Your Drinking Water

2009 CONSUMER CONFIDENCE REPORT

WHERE DOES YOUR WATER COME FROM?

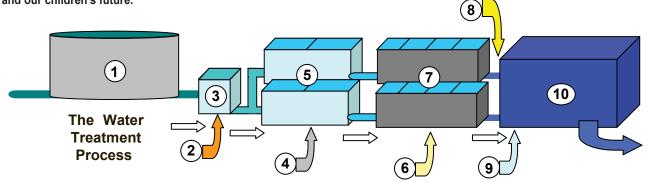


Midwest City's water supply comes from two sources: Lake Thunderbird and the Garber-Wellington aquifer. Most of Midwest City's water supply comes from Lake Thunderbird which is operated by the Central Oklahoma Master Conservatory District (COMCD). Lake Thunderbird was constructed in 1962 for flood control, recreation and as a water supply for Midwest City, Del City and Norman. COMCD pumps the water to the Midwest City Water Treatment Plant through a 19 mile long pipeline.

Midwest City's Water Treatment Plant was originally built in 1966 and could treat 6 million gallons per day (MGD). The plant was expanded in 1985 to its present capacity of 13 MGD. The plant operates 24 hours a day, 7 days a week to provide water to the residents of Midwest City. All employees at the Water Treatment Plant are required to undergo hours of approved training to obtain licenses from ODEQ. The operators, lab and maintenance personnel of Midwest City are some of the most experienced and highly trained personnel in the state. The Treatment plant and its employees are regularly nominated for awards from the Oklahoma Water Pollution Control Association (OWPCA) for superior performance and dedication.

The City of Midwest City operates 22 active water wells that act as supplemental water supply for times of high water demand. Half of these wells pump into a pumping station that once served as Midwest City's main supply. The other half of these wells pump directly into the distribution system. Midwest City maintains a reserve water supply made up of water towers and holding tanks of just under 10 million gallons. Coupled with emergency electric generators at the Water Treatment Plant, Midwest City is able to deliver water continuously even during power outages and disaster.

We work continually to provide high quality water to every tap. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. We ask that all of our customers help us conserve and protect our water resources, which impact our present lifestyle and our children's future.



- Regulating Tank Raw water pumped from Thunderbird is held in elevated storage tanks to provide gravity flow through the plant.
- 2. Coagulation Chemicals are added to the water which causes very fine particles to clump together.
- Flash Mix Motors mix the chemicals and water together to ensure an even distribution throughout.
- Stabilization and Supplemental Treatment - Chemicals are added to the water to prevent corrosion of the distribution piping.

- Chemicals can also be added to control taste and order or to aid in the coagulation, flocculation and sedimentation processes.
- Flocculation and Sedimentation -Midwest City uses up-flow clarifiers which combine the flocculation (gathering together of small particles) and sedimentation processes.
- Applied Disinfection Chlorine Dioxide is added to the water to oxidize and disinfect materials and microbes in the water.
- 7. Filtration Water is passed through special filters made of sand, gravel and coal. These filters remove the

- small particles that were not removed during the sedimentation process.
- 8. Final Disinfection Chlorine is added to the water to kill any microorganisms, including disease causing bacteria. Chlorine gas leaves a residual which protects the water as it flows through the distribution system.
- 9. Fluoridation A small amount of Fluoride is added to help prevent cavities in children.
- Storage and Pumping Finished water is held in holding tanks at the treatment plant until it is pumped to your tap.

You can use and enjoy water every minute of the day, confident that the safety and quality of your water is ensured.

Special Information For People With Health Concerns

All Drinking Water May Contain Contaminants

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the **Safe Drinking Water Hotline**:

1(800) 426-4791

Contaminants that may be present in source water before we treat it include:

*Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

*Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

*Pesticides and herbicides, which may come from a variety of sources such as agriculture and residential uses.

*Radioactive contaminants, which are naturally occurring.

*Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Water Drinking Hotline:

1(800) 426-4791

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Last year, we conducted tests for over 80 contaminants. we only detected 13 of those contaminants, and found only 1 at a level higher than the EPA allows. (For more Information see the section labeled Violations). This report is a snapshot of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

VIOLATIONS

The turbidity requirements were violated in June, July and August of 2009. Turbidity is a measurement of the light reflecting particles contained in water.

The turbidity violations were caused by the presence of dissolved Manganese in the source water. Manganese can be introduced into the source water during periods of very hot weather, which causes stratification of the lake. The treatment plant had to add Chlorine to the source water prior to treatment to remove the Manganese. The treatment plant normally only adds chlorine after the water is filtered. The addition of Chlorine causes Manganese to precipitate, thereby causing the turbidity violation.

The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that the presence of microbiological contaminants are a health concern at certain levels of exposure. If water is inadequately treated, microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. EPA has set enforceable requirements for treating drinking water to reduce the risk of these adverse health effects. Treatment such as filtering and disinfecting the water removes or destroys microbiological contaminants. Drinking water which is treated to meet EPA requirements is associated with little to none of this risk and should be considered safe.

ADDITIONAL INFORMATION FOR LEAD

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. City of Midwest City is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

DEFINITIONS

In the following table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

BPQL - Below Practical Quantification Levels

Parts per million (ppm) or Milligrams per liter (mg/l)

Parts per billion (ppb) or Micrograms per liter (ug/l)

Parts per trillion (ppt) or Nanograms per liter (nanograms/l)

Parts per guadrillion (ppg) or Picograms per liter (picograms/I)

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level (MCL) - The MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal - The MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Midwest City Water Quality Summary 2009

The City of Midwest City routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2009 (unless otherwise stated). The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Substance	Units	MCLG	MCL	Water Treatment Wells	Violation	Major Sources in Drinking Water
				Inorganic Contami	nants	
ead	ppb	0	AL = 15	90th Percentile 2007** 3.22 # of Samples Exceeding AL	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper	ppm	0	AL = 1.3	90th Percentile 2007** 0.129 # of Samples Exceeding AL	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
-luoride***	ppm	4	4	Avg. Level Detected in 2009 0.84 <0.40 Range Detected in 2009 0 - 0.59	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
litrate [measured as Nitrogen]	ppm	10	10	Avg. Level Detected in 2009 0.24 Range Detected in 2008 0.11 - 0.48	* * * * * * No * *	Runoff from fertilizer use; leaching form septic tanks, sewage; erosion of natural deposits
Barium	μg/L	2000	2000	Avg. Level Detected 2009 378.40 Range Detected in 2009 332 - 438	× No ×	Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits
				Radiological Contan	ninants	
Beta/photon emitters	pCi/L	0	50	Avg. Level Detected in 2009 1.710 Range Detected in 2009 0 - 4.65	No	Decay of natural and man-made deposits
Alpha emitters	pCi/L	0	15	Avg. Level Detected in 2009 4.995 Range Detected in 2009 4.3 - 6.48	No	Erosion of natural deposits
Combined Radium (226 & 228)	pCi/L	0	5	Avg. Level Detected in 2009 0.703 Range Detected in 2009 0.474 - 1.2	No	Decay of natural and man-made deposits
				Disinfection By-Pro	oducts	
Total Trihalomethanes (TTHMs)	ppb	0	80 (RAA)	Highest Running Annual Average (RA 34 Range Detected in 2009* 0 - 142.8	No No	By-Product of drinking water chlorination * Quarterly Average
Haloacetic Acids (HAA5)	ppb	0	60 (RAA)	Highest Running Annual Average (RA 17 Range Detected in 2009*	A) No	By-Product of drinking water chlorination * Quarterly Average
Chlorite	ppb	800	1000	Avg Level Detected in 2009 82.98 Range Detected in 2009 0 - 235	No	By-Product of drinking water chlorination
Precursor Removal Total Organic Carbon (TOC	The percentage of		(TOC) removal was me	asured each month and the system met	NO	Naturally occurring
				Microbiological Conta	aminants	
Total Coliform	% negative samples/month	100%	95%	100.00%	No	Naturally present in the environment
Fecal Coliform	% negative samples/month	100%	100%	100.00%	No	Human and animal fecal waste
Furbidity	NTU % <0.3	100%	< 0.3 NTU in more than 95% of samples	Monthly Lowest % < 0.3 NTU 90.87% Highest Single Reading 2009 0.48	Yes	Soil runoff

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

^{**} The state allows us to monitor for some contaminants less than once per year because the concentrations do not change frequently. Some of our data, though representative, are more than one year old.

^{***} The range shown for Fluoride is the range of the samples analyzed by the ODEQ lab. The average level is the average concentration of samples analyzed by the Water Treatment Plant lab.